

BALDOR® • RELIANCE

Product Information Packet

EM3559T-5

3HP,3450RPM,3PH,60HZ,145T,3532M,TEFC,F1

Part Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3532M	Elec. Spec:	35WGM839	CD Diagram:	CD0006
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35TT638	Layout:	35LYTT638
Frame:	145T	Mounting:	F1	Poles:	02	Created Date:	05-16-2013
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	10-16-2015
Leads:	3#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3441L

CAT.NO.	EM3559T-5										
SPEC.	35TT638M839G1										
HP	3										
VOLTS	575										
AMP	2.9										
RPM	3450										
FRAME	145T				HZ		60		PH		3
SER.F.	1.15		CODE		L	DES		B	CL		F
NEMA-NOM-EFF	86.5		PF		92						
RATING	40C AMB-CONT										
CC	010A		USABLE AT 208V								
DE	6205				ODE		6203				
ENCL	TEFC		SN								
VPWM INVERTER READY CT6-60H(10:1)VT3-60H(20:1)											

Parts List		
Part Number	Description	Quantity
SA263193	SA 35TT638M839G1	1.000 EA
RA249916	RA 35TT638M839G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 EA
36GS1000	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3100M01	FREP TEFC 203 BRG W/GRSR (RAISED FH PADS	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3101A01SP	PUEP-ENCLOSED-205 BRG-W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA
35GS1030	35 GS FOR CB LID - LEXIDE	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 EA
S/P107-000-001	SUPER E PROC'S-FS, WS & CK PLTS	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A22	THRUBOLT 10-32 X 10.125	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3441L	ALUM SUPER-E VPWM INVERTER READY UL	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA

AC Induction Motor Performance Data

Record # 32143 - Typical performance - not guaranteed values

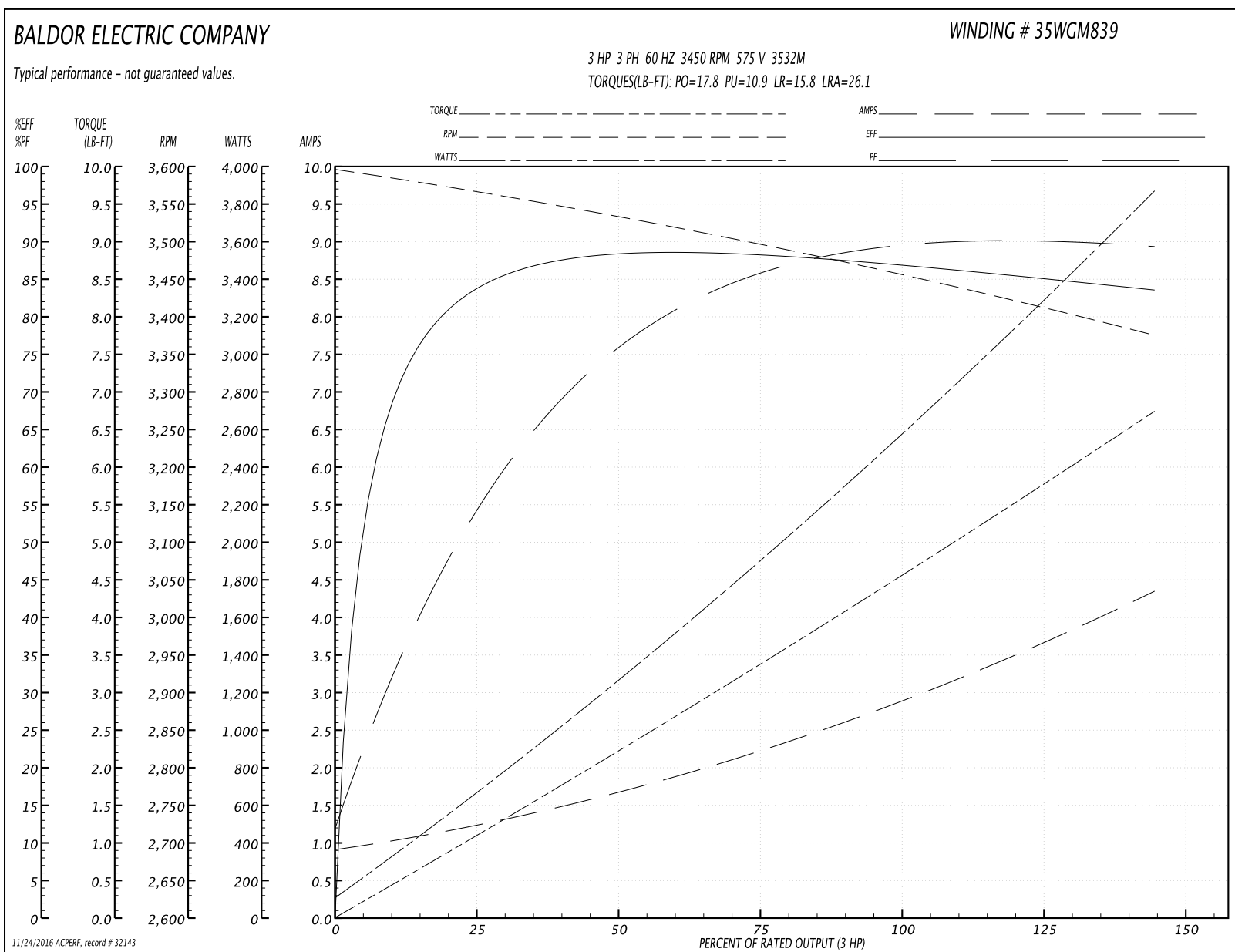
Winding: 35WGM839-R001	Type: 3532M	Enclosure: TEFC
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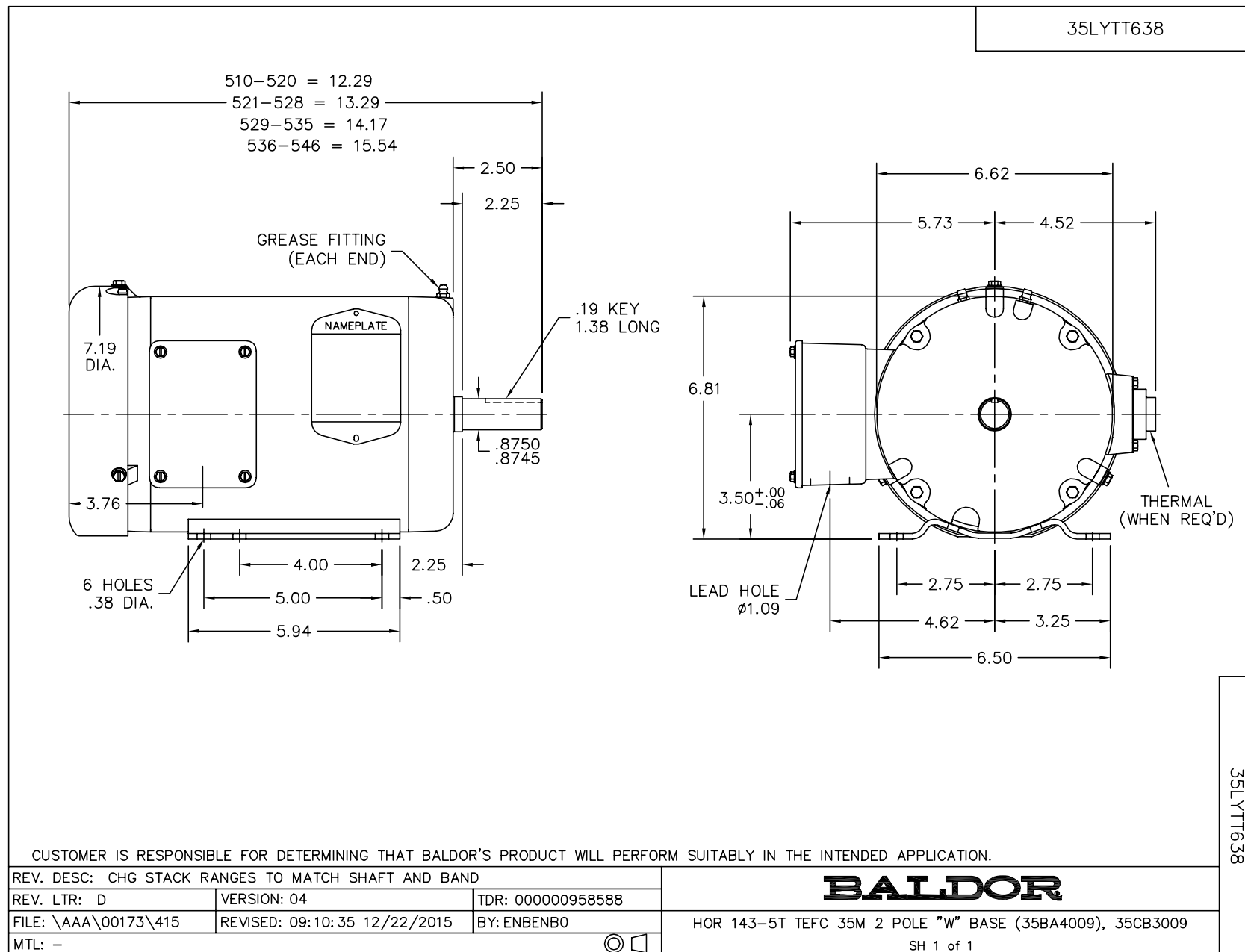
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	3			Full Load Torque	4.5 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	2.9			Breakdown Torque	17.8 LB-FT
R.P.M.	3450			Pull-up Torque	10.9 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	15.8 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	26.1 A
Service Factor (S.F.)	1.15			No-load Current	0.948 A
NEMA Nom. Eff.	86.5	Power Factor	92	Line-line Res. @ 25°C	7.47 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	61°C
S.F. Amps				Temp. Rise @ S.F. Load	74°C
				Locked-rotor Power Factor	47
				Rotor inertia	0.0885 LB-FT ²

Load Characteristics 575 V, 60 Hz, 3 HP

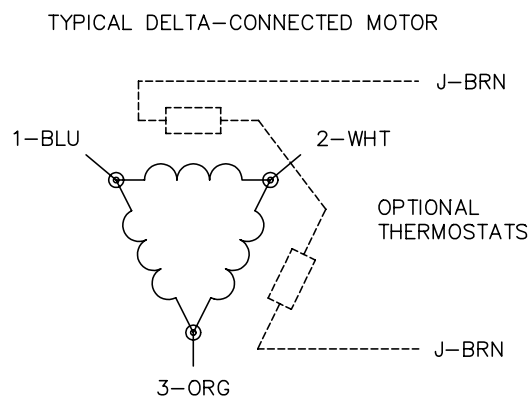
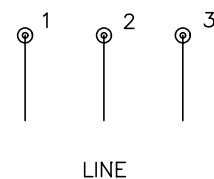
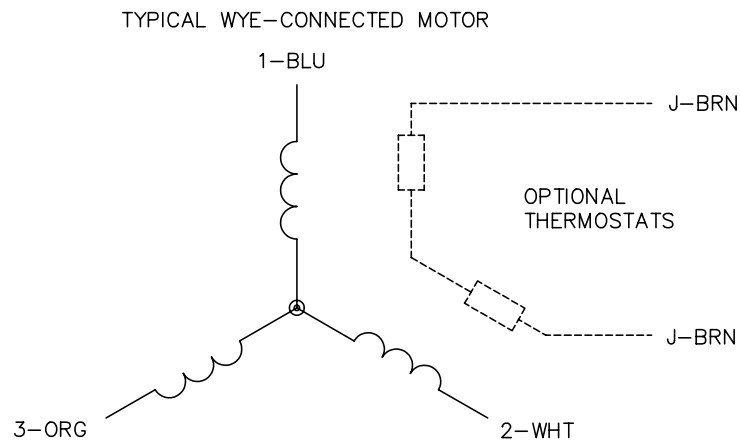
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	77	86	88	89	90	89
Efficiency	83.8	87.9	88.1	87.2	85.5	83.4	86.2
Speed	3562	3531	3497	3461	3419	3373	3436
Line amperes	1.19	1.67	2.23	2.88	3.6	4.32	3.31

Performance Graph at 575V, 60Hz, 3.0HP Typical performance - Not guaranteed values





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: D

BY: JLP

REVISED: 01/21/99 4:02

TDR: 0171435

90000D

FILE: AAA00005141

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006